



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1

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9	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.08	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	6 set /101-150 cum	128.64	12	12
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-50 cum	38.61	8	8

Santhosh -NA
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Assistant Executive Engineer
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-01-05-12 Date: 18-09-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 14-09-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY, Clause 6
Date of test : 15-09-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	—
2	Finess by Air permeability method (m ² /kg, Min)	348.6	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

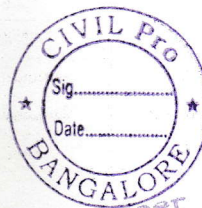
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Authorized Signatory
Quality Manager



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Certificate No.: TC-5548

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-01-05-12 **Date:** 13-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 15-09-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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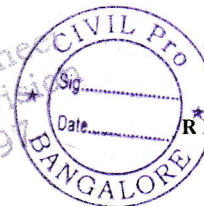
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-05-12 **Date:** 18-09-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 14-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-05-12

Date: 18-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.41	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.23	—

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN

Authorized Signatory

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-05-12 **Date:** 16-09-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 14-09-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 14-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

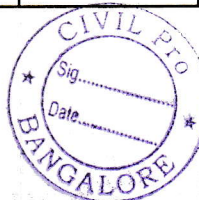
Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2021-01-05-12

Date: 16-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-01-05-12 Date: 16-09-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 14-09-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2021-01-05-12

Date: 16-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST RESULTS OF STEEL

Lab ID : CP-2021-01-05-12 **Date:** 15-09-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 14-09-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)			
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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AE W10

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-01-05-12 Date: 02-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-01-05-12 **Date:** 02-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	240.3	7.6	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	240.5	7.6	7.1	8.9

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Smrithi.NK
AE W/O

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 **Date:** 28/09/2020
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-09-20
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	21/09/2020	28/09/2020	151.89 X	22716	8.763	417.3	18.4	18.2
					149.55 X					
					151.67					
2	Drain Bottom Raft Concrete	M20	21/09/2020	28/09/2020	151.05 X	22545	8.134	410.6	18.2	
					149.26 X					
					149.54					
3	Drain Bottom Raft Concrete	M20	21/09/2020	28/09/2020	150.87 X	22878	8.329	415.5	18.2	
					151.63 X					
					151.29					

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Surethi - NK
AE W10

[Signature]

Assistant Executive Engineer
Vidyanarayapura Sub Division
BBMP, Bangalore

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 **Date:** 19/10/2020
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-09-20
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 19/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	21/09/2020	19/10/2020	149.89 X 150.23 X 150.70	22518	8.113	536.9	23.8	23.3
2	Drain Bottom Raft Concrete	M20	21/09/2020	19/10/2020	152.00 X 149.64 X 151.73	22745	8.827	516.4	22.7	
3	Drain Bottom Raft Concrete	M20	21/09/2020	19/10/2020	150.61 X 150.55 X 150.98	22674	9.034	530.1	23.4	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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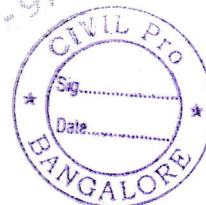
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Swetha . NK
AE WIO

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore - 97

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 28/09/2020

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/VO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-20

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	21/09/2020	28/09/2020	150.80 X 151.01 X 151.96	22772	8.763	415.8	18.3	18.2
2	Drain Bottom Raft Concrete	M20	21/09/2020	28/09/2020	150.21 X 150.56 X 151.84	22616	8.134	408.1	18.0	
3	Drain Bottom Raft Concrete	M20	21/09/2020	28/09/2020	149.61 X 151.18 X 151.87	22618	8.329	413.9	18.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 19/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-20

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	21/09/2020	19/10/2020	151.41 X 151.95 X 150.20	23007	8.113	541.9	23.6	23.2
2	Drain Bottom Raft Concrete	M20	21/09/2020	19/10/2020	149.34 X 151.33 X 151.26	22600	8.827	517.8	22.9	
3	Drain Bottom Raft Concrete	M20	21/09/2020	19/10/2020	149.99 X 150.31 X 151.09	22545	9.034	518.6	23.0	

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Smitha.NK
AEW 10

[Signature]

Assistant Executive Engineer
Vidyaranyapura Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 01/10/2020

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 01/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	24/09/2020	01/10/2020	149.29 X 149.97 X 149.84	22390	8.763	415.3	18.6	18.6
2	Drain Side Wall Concrete	M20	24/09/2020	01/10/2020	150.74 X 150.03 X 151.05	22616	8.134	419.1	18.5	
3	Drain Side Wall Concrete	M20	24/09/2020	01/10/2020	149.81 X 149.80 X 150.91	22442	8.329	419.9	18.7	

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Note:

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Swetha .NL
AE WIO

Assistant Executive Engineer
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BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 22/10/2020

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	24/09/2020	22/10/2020	150.80 X 149.43 X 150.67	22533	8.113	536.3	23.8	23.2
2	Drain Side Wall Concrete	M20	24/09/2020	22/10/2020	150.67 X 149.81 X 151.75	22571	8.827	511.8	22.7	
3	Drain Side Wall Concrete	M20	24/09/2020	22/10/2020	151.99 X 151.78 X 151.57	23069	9.034	531.1	23.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

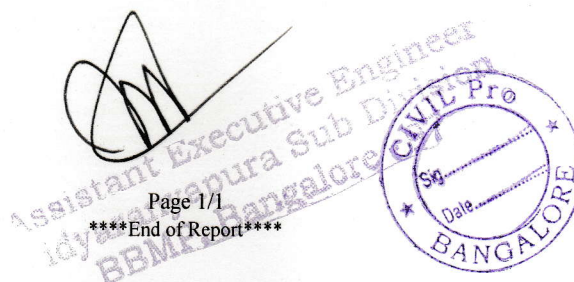
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Suetha .NK
AE W10

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Authorized Signatory
Quality Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 01/10/2020
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-09-20
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 01/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	24/09/2020	01/10/2020	149.10 X 151.22 X 151.52	22546	8.763	410.9	18.2	
2	Drain Side Wall Concrete	M20	24/09/2020	01/10/2020	151.59 X 149.36 X	22642	8.134	425.4	18.8	18.5

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Signature
R K

Assistant Executive Engineer
Vidyananyapura Sub Division
BBMP, Bangalore - 560004
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 22/10/2020

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	24/09/2020	22/10/2020	149.11 X 149.11 X 149.36	22233	8.113	525.6	23.6	23.4
2	Drain Side Wall Concrete	M20	24/09/2020	22/10/2020	151.58 X 151.24 X 151.67	22926	8.827	518.5	22.6	
3	Drain Side Wall Concrete	M20	24/09/2020	22/10/2020	150.53 X 151.73 X 151.59	22840	9.034	545.2	23.9	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

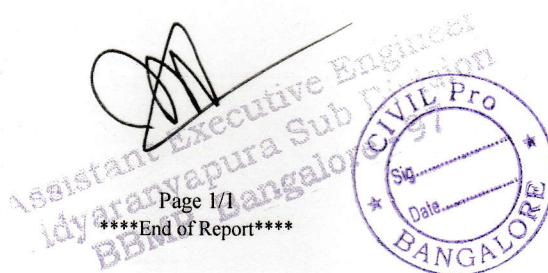
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 06/10/2020

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-10-20

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Raft Concrete	M20	29/09/2020	06/10/2020	150.37 X 151.38 X 149.09	22763	8.763	432.0	19.0	18.8
2	Culvert Bottom Raft Concrete	M20	29/09/2020	06/10/2020	151.55 X 150.79 X 150.07	22851	8.134	422.0	18.5	
3	Culvert Bottom Raft Concrete	M20	29/09/2020	06/10/2020	149.83 X 151.86 X 151.20	22755	8.329	428.3	18.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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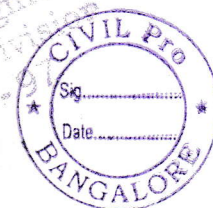
Swathi . NK
AE W/O

[Signature]

Assistant Executive Engineer
Vidyanayapura Sub Division
BBMP, Bangalore - 3

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 27/10/2020
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/VO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-20
Customer ID : Culvert Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 27/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Raft Concrete	M20	29/09/2020	27/10/2020	149.24 X 151.22 X 149.25	22569	8.113	540.0	23.9	23.3
2	Culvert Bottom Raft Concrete	M20	29/09/2020	27/10/2020	150.58 X 150.85 X 151.57	22714	8.827	501.7	22.1	
3	Culvert Bottom Raft Concrete	M20	29/09/2020	27/10/2020	151.41 X 151.00 X 151.71	22862	9.034	546.6	23.9	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Swetha - NR
AE WIO

Assistant Executive Engineer
Vidyanayapura Sub Division
BBMP, Bangalore

Page 1/1

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 10/10/2020
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-10-20
Customer ID : Culvert Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	03/10/2020	10/10/2020	150.37 X	22734	8.763	430.5	18.9	18.4
					151.18 X					
					150.47					
2	Culvert Side Wall Concrete	M20	03/10/2020	10/10/2020	151.07 X	22698	8.134	417.0	18.4	
					150.25 X					
					150.99					
3	Culvert Side Wall Concrete	M20	03/10/2020	10/10/2020	150.35 X	22718	8.329	409.1	18.0	
					151.10 X					
					150.91					

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

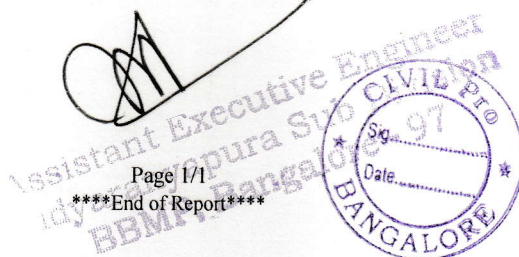
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Suilla .NK
AE WIO





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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 31/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-10-20

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	03/10/2020	31/10/2020	151.64 X 150.80 X 149.81	22867	8.113	530.0	23.2	23.0
2	Culvert Side Wall Concrete	M20	03/10/2020	31/10/2020	149.55 X 150.06 X 151.86	22441	8.827	503.3	22.4	
3	Culvert Side Wall Concrete	M20	03/10/2020	31/10/2020	149.01 X 150.48 X 149.19	22422	9.034	526.4	23.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

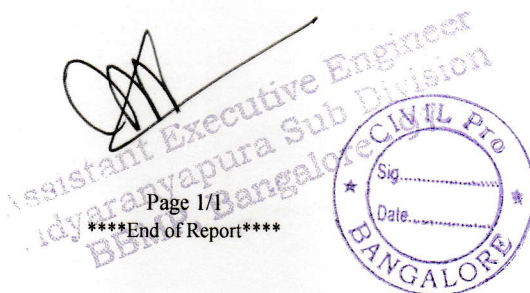
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Swathi - NL
AE L10

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Quality Manager



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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 14/10/2020

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-10-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	07/10/2020	14/10/2020	149.37 X 150.23 X 151.61	22439	8.795	283.3	12.6	12.5
2	PCC	M15	07/10/2020	14/10/2020	151.67 X 150.11 X 150.20	22767	8.414	292.7	12.9	
3	PCC	M15	07/10/2020	14/10/2020	150.88 X 151.02 X 151.68	22786	8.877	275.8	12.1	

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Suretha.NK
AC 110

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Quality Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 04/11/2020
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-10-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	07/10/2020	04/11/2020	150.85 X	22875	8.310	408.6	17.9	17.4
					151.65 X					
					149.35					
2	PCC	M15	07/10/2020	04/11/2020	149.14 X	22369	8.198	384.2	17.2	
					149.99 X					
					149.44					
3	PCC	M15	07/10/2020	04/11/2020	151.29 X	22906	9.020	394.3	17.2	
					151.41 X					
					151.29					

* The results obtained are satisfactory as per standard requirements.

Note:

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Signature: N.K.
AE W10

Signature

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Signature: R.K.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 14/10/2020
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."
Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.
Customer's Reference : BBMP/EE/BTP/WO/105/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-10-20
Customer ID : PCC

Sl. No.	Material	Grade	Date of Receipt	Date of Test	Length (mm)		Area (sq. mm)	Load (kN)	Strength (N/mm ²)	Modulus of Elasticity (N/mm ²)	Compressive Strength (N/mm ²)
					1	2					
1	PCC	M15	07/10/2020	14/10/2020	150.16	X	22409	8.795	283.3	12.6	
					149.23	X					
					149.61						
2	PCC	M15	07/10/2020	14/10/2020	150.13	X	22662	8.414	288.1	12.7	12.5
					150.95	X					
					150.85						
3	PCC	M15	07/10/2020	14/10/2020	149.62	X	22522	8.877	270.7	12.0	
					150.53	X					
					150.76						

* The results obtained are satisfactory as per standard requirements.

Note:

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Suitha . N K
A E L 10

[Signature]

Assistant Executive Engineer
Vidyanayapura Sub Division
BBMP, Bangalore - 97

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[Signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 04/11/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-10-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	07/10/2020	04/11/2020	150.01 X 150.46 X 150.23	22570	8.310	402.4	17.8	17.6
2	PCC	M15	07/10/2020	04/11/2020	150.83 X 151.22 X 150.31	22808	8.198	392.5	17.2	
3	PCC	M15	07/10/2020	04/11/2020	151.14 X 150.15 X 150.71	22695	9.020	404.3	17.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Signature: N.K.
AG W10

Signature: [Handwritten Signature]



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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 20/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.64 X	22466	8.444	567.1	25.2	25.4
					149.14 X					
					149.34					
2	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	151.81 X	22884	8.583	606.2	26.5	
					150.73 X					
					151.92					
3	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.24 X	22558	8.362	553.4	24.5	
					150.14 X					
					150.00					

* The results obtained are satisfactory as per standard requirements.

Note:

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Suetha - NK
- AE WIO

[Signature]

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 560009

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[Signature]

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 10/11/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.81 X 149.87 X 151.48	22452	8.181	753.7	33.6	33.2
2	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	151.25 X 151.74 X 151.36	22951	8.474	751.1	32.7	
3	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.66 X 151.89 X 149.44	22732	8.912	755.0	33.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

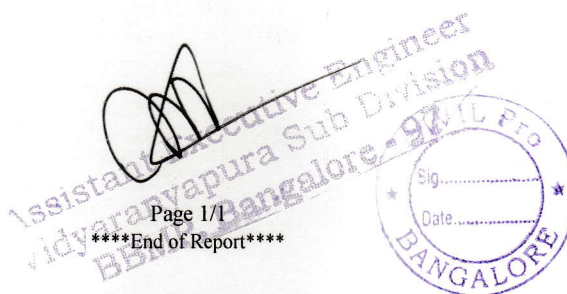
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Quality Manager



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 Date: 20/10/2020

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.64 X	22466	8.444	567.1	25.2	25.4
					149.14 X					
					149.34					
2	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	151.81 X	22884	8.583	606.2	26.5	
					150.73 X					
					151.92					
3	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.24 X	22558	8.362	553.4	24.5	
					150.14 X					
					150.00					

* The results obtained are satisfactory as per standard requirements.

Note:

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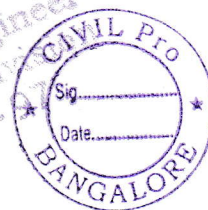
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Suetha.NK
AE W10

[Signature]

Assistant Executive Engineer
Vidyananyapura Sub Division
BBMP, Bangalore - 3



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[Signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-05-12 **Date:** 10/11/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Doddabommasandra and Surrounding Area in Ward No.10 (Doddabommasandra)."

Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	151.50 X	22795	8.181	754.6	33.1	32.9
					150.47 X					
					151.71					
2	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.27 X	22544	8.474	729.0	32.3	
					151.03 X					
					150.96					
3	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	151.25 X	22741	8.912	756.2	33.3	
					150.35 X					
					151.36					

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Suetha .NK
AE WIO

[Signature]



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Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	151.81 X 151.53 X 149.26	23004	8.444	583.5	25.4	25.4
2	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.76 X 151.62 X 151.38	22858	8.583	610.5	26.7	
3	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	149.57 X 151.74 X 149.51	22695	8.362	547.6	24.1	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
Bangalore-94

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Lab ID : CP-2021-01-05-12 **Date:** 10/11/2020

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Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

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Agency : Sri.K.V.subba Reddy, No:106/B, Ashwathnagar, RMV, 2nd Stage, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	150.73 X 150.74 X 150.08	22720	8.181	769.0	33.8	33.5
2	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	151.22 X 151.45 X 150.02	22903	8.474	746.6	32.6	
3	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.01 X 149.72 X 149.38	22310	8.912	757.4	33.9	

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Saethu.NK
AEU10

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Customer's Reference : BBMP/EE/BTP/VO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	149.73 X 150.76 X 150.79	22574	8.444	580.5	25.7	25.5
2	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	151.32 X 149.06 X 149.82	22556	8.583	596.3	26.4	
3	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	151.56 X 151.21 X 151.43	22917	8.362	556.7	24.3	

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Swetha . N L
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Customer's Reference : BBMP/EE/BTP/WO/105/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.11 X 150.45 X 150.71	22434	8.181	760.8	33.9	33.2
2	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	150.02 X 149.06 X 151.57	22361	8.474	716.8	32.1	
3	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.59 X 151.65 X 150.07	22685	8.912	765.8	33.8	

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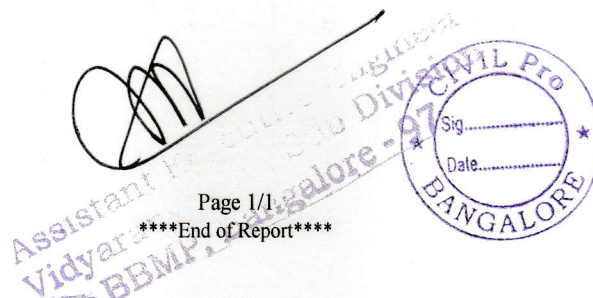
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Sureth . NK
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Authorized Signatory
Quality Manager

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					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	149.19 X 149.06 X 149.34	22238	8.444	577.4	26.0	25.7
2	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.32 X 150.29 X 151.86	22592	8.583	596.8	26.4	
3	Cement Concrete Pavement	M15	13/10/2020	20/10/2020	150.49 X 150.50 X 150.07	22649	8.362	561.0	24.8	

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					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	151.19 X 150.28 X 151.38	22721	8.181	768.6	33.8	33.2
2	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	151.61 X 149.43 X 150.84	22656	8.474	727.9	32.1	
3	Cement Concrete Pavement	M15	13/10/2020	10/11/2020	149.24 X 150.03 X 150.26	22390	8.912	752.6	33.6	

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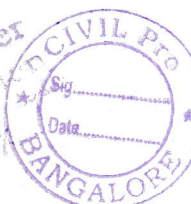
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Suetha . NK
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(Signature)

Assistant Executive Engineer
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